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RAW SEQUENCE LISTING

DATE: 09/16/2004

PATENT APPLICATION: US/10/721,579

TIME: 16:08:07

Input Set : A:\-17-1.app

Output Set: N:\CRF4\09162004\J721579.raw

3 <110> APPLICANT: Swenson, David
 4 Cepheid
 6 <120> TITLE OF INVENTION: Controls for Primers in Multiplex Amplification
 7 Reactions
 9 <130> FILE REFERENCE: 020048-001710US
 11 <140> CURRENT APPLICATION NUMBER: US 10/721,579
 12 <141> CURRENT FILING DATE: 2003-11-24
 14 <150> PRIOR APPLICATION NUMBER: US 60/429,834
 15 <151> PRIOR FILING DATE: 2002-11-27
 17 <160> NUMBER OF SEQ ID NOS: 15
 19 <170> SOFTWARE: PatentIn Ver. 2.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 81
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria A
 28 specific PCR target sequence
 30 <400> SEQUENCE: 1
 31 ggtgcggaag tgtaacgagg tggaaagcgc accatcgttt ctattacaag tcccttgatg 60
 32 gaagattatg tcgaccactt t 81
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 81
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Description of Artificial Sequence:complementary
 42 sequence to the target sequence for Bacteria A
 44 <400> SEQUENCE: 2
 45 aaagtgggtcg acataatctt ccatcaaggg actagtaata gaaacgatgg tgcgctttcc 60
 46 acctcggttac acttcgcac c 81
 49 <210> SEQ ID NO: 3
 50 <211> LENGTH: 15
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Artificial Sequence
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria A
 56 forward primer
 58 <400> SEQUENCE: 3
 59 ttacacttcc gcacc 15
 62 <210> SEQ ID NO: 4
 63 <211> LENGTH: 15
 64 <212> TYPE: DNA

ENTERED

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65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria A
69     reverse primer
71 <400> SEQUENCE: 4
72 tatgtcgacc acttt                                     15
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 27
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence:Beacons probe
82     for Bacteria A
84 <220> FEATURE:
85 <221> NAME/KEY: modified_base
86 <222> LOCATION: (1)
87 <223> OTHER INFORMATION: n = c modified by FAM
89 <220> FEATURE:
90 <221> NAME/KEY: modified_base
91 <222> LOCATION: (27)
92 <223> OTHER INFORMATION: n = g modified by Dabcyl
94 <400> SEQUENCE: 5
W--> 95 ncacgcacta gtaatagaaa cgcgtgn                      27
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 90
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria B
105     specific PCR target sequence
107 <400> SEQUENCE: 6
108 gcacgcgtat gcagcgacga tgcagcgacg agtcgaggct aggcgagcag ctttatctat 60
109 catcgtgatc gtgtacgtag ctagcatctg                      90
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 90
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence:complementary
119     sequence to the target sequence for Bacteria B
121 <400> SEQUENCE: 7
122 cagatgctag ctacgtacac gatcacgatg atagataaag ctgctcgctt agcctcgact 60
123 cgtcgctgca tegtctgtgc atacgcgtgc                      90
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 15
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria B

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133         forward primer
135 <400> SEQUENCE: 8
136 gctgcatacg cgtgc                                     15
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 15
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence:Bacteria B
146         reverse primer, Target 2 reverse primer sequence
148 <400> SEQUENCE: 9
149 cgtagctagc atctg                                     15
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 30
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence:Beacons probe
159         for Bacteria B
161 <220> FEATURE:
162 <221> NAME/KEY: modified_base
163 <222> LOCATION: (1)
164 <223> OTHER INFORMATION: n = c modified by Texas Red
166 <220> FEATURE:
167 <221> NAME/KEY: modified_base
168 <222> LOCATION: (30)
169 <223> OTHER INFORMATION: n = g modified by Dabcyl
171 <400> SEQUENCE: 10
W--> 172 ncacgcgctg ctcgcctagc ctcggcgtgn                 30
175 <210> SEQ ID NO: 11
176 <211> LENGTH: 111
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:Internal
182         Control Oligo
184 <400> SEQUENCE: 11
185 ggtgcggaag tgtaaaaacg tagctagcat aaaagctagc atctgaaatc gagctgatgc 60
186 tgcaaagctg catacgcgaa agcatacgcg tgcaaatatg tcgaccactt t       111
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 111
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence:complementary
196         sequence to the target sequence for Internal
197         Control Oligo
199 <400> SEQUENCE: 12
200 aaagtggctg acatatttgc acgcgtatgc ttctgcgtaa gcagctttgc agcatcagct 60

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```

201 cgatttcaga tgctagcttt tatgctagct acgtttttac acttccgcac c      111
204 <210> SEQ ID NO: 13
205 <211> LENGTH: 27
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: Beacons probe
211     for the Internal Control
213 <220> FEATURE:
214 <221> NAME/KEY: modified_base
215 <222> LOCATION: (1)
216 <223> OTHER INFORMATION: n = c modified by TET
218 <220> FEATURE:
219 <221> NAME/KEY: modified_base
220 <222> LOCATION: (27)
221 <223> OTHER INFORMATION: n = g modified by Dabcyl
223 <400> SEQUENCE: 13
W--> 224 ncacgcgcag catcagctcg agcgtgn      27
227 <210> SEQ ID NO: 14
228 <211> LENGTH: 30
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: Target 2
234     reverse primer subsequences
236 <400> SEQUENCE: 14
237 cgtagctagc atctgaaaag ctagcatctg      30
240 <210> SEQ ID NO: 15
241 <211> LENGTH: 27
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: Target 2
247     reverse primer subsequences
249 <220> FEATURE:
250 <221> NAME/KEY: modified_base
251 <222> LOCATION: (10)..(21)
252 <223> OTHER INFORMATION: n = g, a, c or t; unrelated nucleotides separating
253     Target 2 reverse primer subsequences
255 <400> SEQUENCE: 15
W--> 256 cgtagctagn nnnnnnnnnn ncatctg      27

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 1,27 ✓
Seq#:10; N Pos. 1,30 ✓
Seq#:13; N Pos. 1,27 ✓
Seq#:15; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21 ✓

VERIFICATION SUMMARY

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Input Set : A:\-17-1.app

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L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0